Title (en)
SIGNAL DEMODULATION METHOD AND DEVICE USING VELOCITY VECTORS OF A MOBILE TERMINAL

Title (de)
VERFAHREN UND VORRICHTUNG ZUR SIGNALDEMODULATION DURCH VERWENDUNG VON GESCHWINDIGKEITSVEKTOREN IN EINEM MOBILEN ENDGERÄT

Title (fr)
PROCÉDÉ ET DISPOSITIF DE DÉMODULATION DE SIGNAL UTILISANT DE VECTEURS DE VITESSE D'UN TERMINAL MOBILE

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Application
EP 14800268 A 20140429

Priority
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Abstract (en)
Provided are a signal demodulation method and device, so as to reduce the influence of Doppler frequency shift on the communication rate. When a received radio-frequency signal transmitted by a base station is demodulated, after a reference clock signal provided by a PMU is acquired, it is also required to determine a moving speed of a mobile terminal and determine a Doppler frequency offset value generated when the mobile terminal receives the radio-frequency signal transmitted by the base station according to the moving speed, and then the received radio-frequency signal transmitted by the base station is demodulated according to the reference clock signal and the Doppler frequency offset values. Since the influence of Doppler frequency offset is taken into account when a radio-frequency signal transmitted by a base station is demodulated, the demodulation accuracy is very high, thereby avoiding the problem of too slow a communication rate when Doppler frequency shift exists.

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